

**YEAR 4**

Number	Place Value	Addition and Subtraction	Multiplication and Division	Fractions, (including decimals and percentages)
	<ul style="list-style-type: none"><li>• Count on/back in 10s, 100s, 1000s and 25s from 0 - 10 000</li><li>• Recognise the place value of each digit in a 4-digit number</li><li>• Find 10, 100 and 1000 more or less than any given whole number</li><li>• Identify, represent and estimate numbers using different representations</li><li>• Order and compare numbers up to 1000</li><li>• Solve number and practical problems that involve all of the above and with increasingly large, positive numbers</li></ul>	<ul style="list-style-type: none"><li>• Add and subtract numbers with 2 and 3-digits using a number line. (Introduce column addition where appropriate)</li><li>• Estimate and use inverse operations to check answers to calculations</li><li>• Solve one-step addition and subtraction word problems in context, deciding which operations and methods to use and why.</li></ul>	<ul style="list-style-type: none"><li>• Recall and use <math>\times</math> and <math>\div</math> facts up to <math>12 \times 12</math> (2, 5, 10, 3, 4, 6, 8 to embed)</li><li>• To multiply and divide mentally using place value, known facts and derived facts. Include <math>\times</math> and <math>\div</math> by 0 and 1.</li><li>• Recognise and use factor pairs and commutativity in mental calculations.</li><li>• Multiply 2 and 3-digit numbers by a 1-digit number using formal written layout.</li><li>• Solve <math>\times</math> and <math>\div</math> problems. Include using the distributive law to multiply 2-digit numbers by 1-digit number</li></ul>	<ul style="list-style-type: none"><li>• Understand the terms 'numerator' and 'denominator'</li><li>• Add and subtract fractions with the same denominator</li><li>• Recognise and show, using diagrams, families of common equivalent fractions (1/2, 1,)</li><li>• Count up and down in tenths. Recognise that tenths arise when dividing an object by one tenth.</li><li>• Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• Find the effect of dividing a 1 or 2-digit number by 10 and 100, identifying the value of the digits in the answers as Units/Ones/Tenths and Hundredths.</li><li>• Solve problems involving fractions to calculate quantities, and fractions to divide quantities.</li></ul>

	Measurement	Geometry - Properties of Shapes	Geometry - Position and direction	Statistics
<p style="text-align: center;"><b>YEAR 4</b> Objectives to be covered during the Autumn Term</p>	<ul style="list-style-type: none"> <li>• To know the relationship between units of measure</li> <li>• Convert between different units of measure: km to m, hours to minutes</li> <li>• Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m.</li> <li>• Estimate, compare and calculate different measures.</li> </ul>	<ul style="list-style-type: none"> <li>• Draw 2-d shapes and make 3-d shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>• Recognise angles as a property of a shape or a description of turn</li> <li>• Identify right angles, recognize that two angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle</li> <li>• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>• Describe positions on a 2-D grid as coordinates in the first quadrant.</li> <li>• Describe movements between positions as translations of a given unit to the left/right and up/down.</li> <li>• Plot specified points and draw sides to complete a given polygon.</li> </ul>	<ul style="list-style-type: none"> <li>• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>• Solve comparison, sum and difference problems using information presented in bar charts, pictograms and tables.</li> </ul>